







```
/ COUNTRY: USA
/ ZIP: 02103
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC DOS/MS DOS
/ SOFTWARE: ASCII
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/389,459A
/ FILING DATE: 15 FEB 1993
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/087,009
/ FILING DATE: 01-JUL-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Silveri, Jean M.
/ REGISTRATION NUMBER: 39,030
/ REFERENCE/DOCYET NUMBER: UAG-004CP
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/
/ INFORMATION FOR SEQ ID NO. 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 845 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 20..845
/
/ US-08-389-459A-3
/
/ Query Match 55.7%; Score 33.4; DB 1; Length 845;
/ Best Local Similarity 72.9%; Pred. No. 0.019;
/ Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
/
/ QY 1 GACATCAAGTGGGCTTAAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/ ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
/ Db 482 GACATCAAGTGGGCTTAAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/
/ RESULT 9
/ US-08-987-867A-3
/ Sequence 3, Application US/08987867A
/ Patent No. 6063384
/ GENERAL INFORMATION:
/ APPLICANT: C. Morrow et al.
/ TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL
/ TITLE OF INVENTION: NUCLEIC ACID AND METHODS OF MAKING AND
/ TITLE OF INVENTION: USING SAME
/ NUMBER OF SEQUENCES: 23
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LAHIVE & COCKFIELD
/ STREET: 28 STATE STREET
/ CITY: BOSTON
/ STATE: MASSACHUSETTS
/ COUNTRY: USA
/ ZIP: 02109
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS DOS
/ SOFTWARE: ASCII
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/987,867A
/ FILING DATE: 09-DEC-1997
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/087,009
/ FILING DATE: 01-JUL-1993
/ ATTORNEY/AGENT INFORMATION:
```

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/ NAME: Myers, Louis
/ REGISTRATION NUMBER: 35,955
/ REFERENCE/DOCYET NUMBER: UAG-004CPDV
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 742-4214
/
/ INFORMATION FOR SEQ ID NO. 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 845 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 20..845
/
/ US-08-987-867A-3
/
/ Query Match 55.7%; Score 33.4; DB 3; Length 845;
/ Best Local Similarity 72.9%; Pred. No. 0.019;
/ Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
/
/ QY 1 GACATCAAGTGGGCTTAAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/ ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
/ Db 482 GACATCAAGTGGGCTTAAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/
/ RESULT 10
/ 5204259-10
/ Patent No. 5204259
/ APPLICANT: HELTING, TORSTEN B., CREVIN, HAKAN, NURN,
/ MICHAEL F.
/ TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING HIV
/ ANTIGENS
/ NUMBER OF SEQUENCES: 20
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/344,237
/ FILING DATE: 26-APR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 191,299
/ FILING DATE: 06-MAY-1988
/ APPLICATION NUMBER: 191,229
/ FILING DATE: 06-MAY-1988
/ APPLICATION NUMBER: 206,499
/ FILING DATE: 13-JUN-1988
/ APPLICATION NUMBER: 258,016
/ FILING DATE: 14-OCT-1988
/ SEQ ID NO. 10:
/ LENGTH: 871
/
/ 5204259-10
/
/ Query Match 55.7%; Score 33.4; DB 6; Length 871;
/ Best Local Similarity 72.9%; Pred. No. 0.019;
/ Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
/
/ QY 1 GACATCAAGCAGGGGCGGCAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/ ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
/ Db 472 GACATCAAGCAGGGGCGGCAAGGAGGCTTCCGGGACTACGTGACGGTTCCTTCAATAC 59
/
/ RESULT 11
/ 5204259-8
/ Patent No. 5204259
/ APPLICANT: HELTING, TORSTEN B., CREVIN, HAKAN, NURN,
/ MICHAEL F.
/ TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING HIV
/ ANTIGENS
/ NUMBER OF SEQUENCES: 20
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/344,237
/ FILING DATE: 26-APR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 191,299
```







```

US-09-818-443-1
; Sequence 1, Application US/09818443
; Patent No. US20020061517A1
; GENERAL INFORMATION
; APPLICANT: Chen, Ling
; APPLICANT: Shiver, John W.
; APPLICANT: Bett, Andrew J.
; APPLICANT: Casimiro, Danilo P.
; APPLICANT: Caulfield, Michael J.
; APPLICANT: Chastain, Michael A.
; APPLICANT: Emini, Emilio A.
; TITLE OF INVENTION: ADEPOVIRUS CARRYING G
; FILE REFERENCE: 20440YIA
; CURRENT APPLICATION NUMBER: US/09/818,443
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/18332
; PRIOR FILING DATE: 2000-07-03
; PRIOR APPLICATION NUMBER: 60/148,981
; PRIOR FILING DATE: 1999-08-13
; PRIOR APPLICATION NUMBER: 60/142,631
; PRIOR FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1532
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Optimized human HIV-1
US 09 818 443-1

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Query Match 81.3%; Score 48.8; DE 10; Length 1532;  
Best Local Similarity 88.3%; Pred. NO. 1.1e-07;  
Matches 53; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GACATCAAGTACGGGCGCCCAAGGAGGCGCTTCCGGGACTACGTGGACGCTTTATTCAGAGAC 69

b6 859 GACATCAGGACGGGCGCCCAAGGAGGCGCTTACGGGACTATGTGGACAGGTTTACAGAGAC 918

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RESULT 3
US-09-999-181-2
; Sequence 2, Application US/09999183
; Patent No. US20020147169A1
; GENERAL INFORMATION:
; APPLICANT: MITROPHANOUS, et al
; TITLE OF INVENTION: In Vivo Selection Method
; FILE REFERENCE: 674523-2009
; CURRENT APPLICATION NUMBER: US/09/999,183
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/GB00/02136
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 9912965-2
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: SeqWin99
; SEQ ID NO: 2
; LENGTH: 4397
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Codon optimised gapped
US-09-999-181-2

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Query March 71.7%; Score 43; DB 10; Length 4307;  
Best Local Similarity 83.1%; Pred. No. 10.05;  
Matches 49; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

**CY**    1   GACATCAAGCAGGAGTCCAAAGSAGCTTTTCGGGSACTAATGTGACGCTTCTTCAGAC   59  
       |||||    ||    |||||    |||||    |||||    |||||    |||||    |||||    |||||    |||||  
**TP**    250   GACTATCGTAAGAGGCTGAGTAGGAAGCTTTCTTGAGAATGCTGAGCTGTATCAAAAAC   309

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RESULT 4
US-09-991-258-4
; Sequence 4, Application US/09991258
; Patent No. US20020141975A1
; GENERAL INFORMATION.
; APPLICANT: Olmsted, Robert
; APPLICANT: Keith, Paula
; APPLICANT: Dryga, Sergey
; APPLICANT: Caley, Ian
; APPLICANT: Maughan, Maureen
; APPLICANT: Johnston, Robert
; APPLICANT: Davis, Nancy
; APPLICANT: Swarstrom, Ronald
; TITLE OF INVENTION: ALPHAVIRUS VECTORS AND VACCINES WITH MODIFIED HIV GENES FOR USE
; TITLE OF INVENTION: VACCINES
; FILE REFERENCE: 0113 0001U3
; CURRENT APPLICATION NUMBER: US/09/991,258
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 09/902,537
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 09/216,995
; PRIOR FILING DATE: 2000-07-07
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1476
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence, No. US20020141975A1e =
; OTHER INFORMATION: synthetic construct
; NAME/KEY: CDS
; LOCATION: (1)...(1476)
;
US-09-991-258-4

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Query Match 58.3%; Score 35; DB 10; Length 1476;  
Best Local Similarity 74.6%; Pred No 0 0042;  
Matches 44: Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1 GACATCAAGCACAAGGCTCCAAAGAGCGCTTTCGGGCAATAAGTGAGACCGTTCTTCAAGAC 59

Tb 841 GACATCAAGCAAGGCTCCAAAGAGCGCTTTCGGGCAATAAGTGAGACCGTTCTTCAAGAC 260

```

RESULT 5
US-09-991-258-1
; Sequence 1, Application US/09991258
; Patent No. US20020141975A1
; GENEPAK INFORMATION
; APPLICANT Olmsted, Robert
; APPLICANT Keith, Paula
; APPLICANT Dryga, Sergey
; APPLICANT Caley, Ian
; APPLICANT Maughan, Maureen
; APPLICANT Johnston, Robert
; APPLICANT Davis, Nancy
; APPLICANT Swannstrom, Ronald
; TITLE OF INVENTION: ALPHAVIRUS VECTORS AND VIROSOSES WITH MODIFIED HIV GENES FOR USE
; TITLE OF INVENTION: VACCINES
; FILE REFERENCE 0113 0001U3
; CURRENT APPLICATION NUMBER: US/09/991,258
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 09/902,537
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/216,995
; PRIOR FILING DATE: 2000-07-07
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 12523
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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Query Match          55.7%; Score 33.4; DE 9; Length 7228;
Best Local Similarity 72.9%; Pred. No. 0.017;
Matches 43; Conservative 0, Mismatches 16, Indels 0, Gaps 0;

QY 1 GACATCAAGCAGGGCCCCAAGGAGCGCTTCGGGACTACGTGGACCGCTTCTTCAAGAC 59
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1578 GACATAAGACAAGGACCAAGGAACCGTTTAGAGACTATGTAGACCGGTTCTATAAAC 1636

RESULT 10
US-09-943-722-129
; Sequence 129, Application US/09943722
; Publication No. US2002019266A1
; GENERAL INFORMATION:
; APPLICANT:

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Search completed: February 4, 2003, 01:44:52  
Job time : 9.52896 secs

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;
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: 258,016
; FILING DATE: 14-OCT-1988
; SEQ ID NO: 4
; LENGTH: 793
5204259-4

Query Match      55.7%; Score 33.4; DB 6; Length 793;
Best Local Similarity 72.9%; Pred. No. 0.022;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCCGCGCAGGGCCGCAAGGAGCGCTTCCGGGACTAGCTGGACCGCTTCTTCAAGAC 59
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 472 GACATAAGACAAGGACCAAGGAAACCCCTTTAGAGACTATGTAGACCGGTTCTATATAAAC 530

RESULT 3
5204259-6
; Patent No. 5204259
; APPLICANT: HELTING, TORSTEN P., GFEVIN, HAKAN, NUNN,
; MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING HIV
; ANTIGENS
; NUMBER OF SEQUENCES: 20
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/344,237
; FILING DATE: 26-APR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 191,299
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: 191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: 206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: 258,016
; FILING DATE: 14-OCT-1988
; SEQ ID NO: 6
; LENGTH: 796
5204259-6

Query Match      55.7%; Score 33.4; DB 6; Length 796;
Best Local Similarity 72.9%; Pred. No. 0.022;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCCGCGCAGGGCCGCAAGGAGCGCTTCCGGGACTAGCTGGACCGCTTCTTCAAGAC 59
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 472 GACATAAGACAAGGACCAAGGAAACCCCTTTAGAGACTATGTAGACCGGTTCTATATAAAC 530

RESULT 4
US-08-589-446-3
; Sequence 3, Application US/08589446
; Patent No. 5614413
; GENERAL INFORMATION:
; APPLICANT: Morrow, Casey D.
; TITLE OF INVENTION: ENCAPSIDATED POLIOVIRUS NUCLEIC
; TITLE OF INVENTION: ACID AND METHODS OF MAKING AND
; TITLE OF INVENTION: USING SAME
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,982
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/087,009
; FILING DATE: 01-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Geary III, William C.
; REGISTRATION NUMBER: 31,359
; REFERENCE/DOCKET NUMBER: UAG-004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 845 base pairs
; TYPE: nucleic acid
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;
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/087,009
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Geary III, William C.
; REGISTRATION NUMBER: 31,359
; REFERENCE/DOCKET NUMBER: UAG-004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 845 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 20 845
US-08-589-446-3

Query Match      55.7%; Score 33.4; DB 1; Length 845;
Best Local Similarity 72.9%; Pred. No. 0.023;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCCGCGCAGGGCCGCAAGGAGCGCTTCCGGGACTAGCTGGACCGCTTCTTCAAGAC 59
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DB 482 GACATAAGACAAGGACCAAGGAAACCCCTTTAGAGACTATGTAGACCGGTTCTATATAAAC 540

RESULT 5
US-08-444-882-3
; Sequence 3, Application US/08444882
; Patent No. 5622705
; GENERAL INFORMATION:
; APPLICANT: Morrow, Casey D.
; TITLE OF INVENTION: ENCAPSIDATED POLIOVIRUS NUCLEIC
; TITLE OF INVENTION: ACID AND METHODS OF MAKING AND
; TITLE OF INVENTION: USING SAME
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,982
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/087,009
; FILING DATE: 01-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Geary III, William C.
; REGISTRATION NUMBER: 31,359
; REFERENCE/DOCKET NUMBER: UAG-004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 845 base pairs
; TYPE: nucleic acid
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; APPLICATION NUMBER: 191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: 206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: 258,016
; FILING DATE: 14-OCT-1988
; SEQ ID NO: 10
; LENGTH: 871
5204259-10

Query Match          55.7%; Score 33.4, DB 6, Length 871;
Best Local Similarity 72.9%; Pred. No. 0.023,
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCGCCAGGCGCCCAAGGAGCGCTTCGGGAGTACGCGGAGCGTTCTTCAAGAC 59
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 472 GACATAGACAAGGACCAAGGAAAGCCCTTTAGAGACTATGTAGACCGGTTCTATAAAAC 530

RESULT 9
5204259-8
; Patent No. 5204259
; APPLICANT: HEINTING, TOPSTEN B.; CPEVIN, HAKAN; NURN,
; MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING HIV
; ANTIGENS
; NUMBER OF SEQUENCES: 20
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/344,237
; FILING DATE: 26-APR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 191,299
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: 191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: 206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: 258,016
; FILING DATE: 14-OCT-1988
; SEQ ID NO: 8
; LENGTH: 1021
5204259-8

Query Match          55.7%; Score 33.4; DB 6; Length 1021;
Best Local Similarity 72.9%; Pred. No. 0.023;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCGCCAGGCGCCCAAGGAGCGCTTCGGGAGTACGCGGAGCGTTCTTCAAGAC 59
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 472 GACATAGACAAGGACCAAGGAAAGCCCTTTAGAGACTATGTAGACCGGTTCTATAAAAC 530

RESULT 10
US-08-463-210-5
; Sequence 5, Application US/08463210
; Patent No. 6001977
; GENERAL INFORMATION:
; APPLICANT: CHANG, Nancy T.
; APPLICANT: GALLO, Robert C.
; APPLICANT: WONG-STALL, Flossie
; TITLE OF INVENTION: CLONING AND EXPRESSION OF HTLV III DNA
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morgan & Finnegan, L.L.P.
; STREET: 345 Park Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10154-0053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS-DOS
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; SOFTWARE: PatentIn Release #1 0. Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/463,210
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 06/693,866
; FILING DATE: 23-JAN-1985
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 06/659,339
; FILING DATE: 10-OCT-1984
; ATTORNEY/AGENT INFORMATION:
; NAME: Serunian, Leslie A.
; REGISTRATION NUMBER: 35,353
; REFERENCE/DOCKET NUMBER: 2026 4192USC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5362 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEetical: NO
; ORIGINAL SOURCE:
; ORGANISM: HTLV-III
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..5362
; OTHER INFORMATION: /standard name= "Clone BH5"
; OTHER INFORMATION: /note= "Corresponds to nucleotide positions 222 to
; OTHER INFORMATION: 5585 in figure 3 of US 06/693,866 (parent)"
US-08-463-210-5

Query Match          55.7%; Score 33.4, DB 3, Length 5362;
Best Local Similarity 72.9%; Pred. No. 0.026;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 GACATCGCCAGGCGCCCAAGGAGCGCTTCGGGAGTACGCGGAGCGTTCTTCAAGAC 59
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 960 GACATAGACAAGGACCAAGGAAAGCCCTTTAGAGACTATGTAGACCGGTTCTATAAAAC 1018

RESULT 11
US-08-850-049-128
; Sequence 128, Application US/08850049
; Patent No. 5965726
; GENERAL INFORMATION:
; APPLICANT:
; APPLICANT:
; APPLICANT:
; TITLE OF INVENTION: METHOD OF ELIMINATING
; TITLE OF INVENTION: INHIBITORY/INSTABILITY REGIONS OF mRNA
; NUMBER OF SEQUENCES: 130
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/850,049
; FILING DATE: 02-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
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## RESULT 12

APPLICANT:

APPLICANT:

TITLE OF INVENTION.  
INHIBITORY/INSTABILITY REGION OF SPIKES

NUMBER OF SEQUENCES : 1  
CORRESPONDENCE ADDRESS :

STREET: 345 PARK AVENUE

CLIFF: NEW YORK  
STATE. NEW YORK

COUNTRY: USA  
ZIP: 10154

| COMPILER REAL | MEDIUM TYPE |
|---------------|-------------|
| 1             | 1           |
| 2             | 2           |
| 3             | 3           |
| 4             | 4           |
| 5             | 5           |
| 6             | 6           |
| 7             | 7           |
| 8             | 8           |
| 9             | 9           |
| 10            | 10          |
| 11            | 11          |
| 12            | 12          |
| 13            | 13          |
| 14            | 14          |
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COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC DOS / MS-DOS

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;
SOFTWARE: WORDPERFECT 5.1
CURRENT: 1991-03-01

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APPLICATION NUMBER: 115-

CLASSIFICATION: 435

APPLICATION NUMBER - US 08/050,478

; CLASSIFICATION. 435

APPLICATION NUMBER.

; CLASSIFICATION. 435

APPLICATION NUMBER.

1. **Introduction**

2. **Background**

3. **Methods**

4. **Results**

5. **Conclusion**

6. **References**

7. **Appendix**

8. **Supplementary Materials**

9. **Tables**

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272





```
/ APPLICANT: Caulfield, Michael J.
/ APPLICANT: Chastain, Michael A.
/ APPLICANT: Emini, Emilio A.
/ TITLE OF INVENTION: ADENOVIRUS CARRYING GAG GENE HIV VACCINE
/ FILE REFERENCE: 20440YTA
/ CURRENT APPLICATION NUMBER: US/09/818,443
/ PRIOR FILING DATE: 2001-09-13
/ PRIOR APPLICATION NUMBER: PCT/US00/18332
/ PRIOR FILING DATE: 2000-07-03
/ PRIOR APPLICATION NUMBER: 60/148,981
/ PRIOR FILING DATE: 1999-08-13
/ PRIOR APPLICATION NUMBER: 60/142,631
/ PRIOR FILING DATE: 1999-07-06
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 1482
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Optimized tPA gag GPF
US-09-818-443-4
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Query Match      78.7%; Score 47.2; DB 10; Length 1482;
Best Local Similarity 86.7%; Pred. No. 7.1e-07;
Matches 52; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
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QY 1 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTACGTGGAGCGGTTCTTCAAGACC 60
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Db 829 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTATGTGGAGCGGTTCTTCAAGACC 888
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## RESULT 3

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US-09-818-443-1
/ Sequence 1, Application US/09818443
/ Patent No. US20020061517A1
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Ling
/ APPLICANT: Shiver, John W.
/ APPLICANT: Bert, Andrew J.
/ APPLICANT: Casimiro, Danilo R.
/ APPLICANT: Caulfield, Michael J.
/ APPLICANT: Chastain, Michael A.
/ APPLICANT: Emini, Emilio A.
/ TITLE OF INVENTION: ADENOVIRUS CARRYING GAG GENE HIV VACCINE
/ FILE REFERENCE: 20440YTA
/ CURRENT APPLICATION NUMBER: US/09/818,443
/ CURRENT FILING DATE: 2001-09-13
/ PRIOR APPLICATION NUMBER: PCT/US00/18332
/ PRIOR FILING DATE: 2000-07-03
/ PRIOR APPLICATION NUMBER: 60/148,981
/ PRIOR FILING DATE: 1999-08-13
/ PRIOR APPLICATION NUMBER: 60/142,631
/ PRIOR FILING DATE: 1999-07-06
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 1532
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Optimized human HIV-1 gag GPF
US-09-818-443-1
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```
Query Match      78.7%; Score 47.2; DB 10; Length 1532;
Best Local Similarity 86.7%; Pred. No. 7.1e-07;
Matches 52; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
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QY 1 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTACGTGGAGCGGTTCTTCAAGACC 60
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 859 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTATGTGGAGCGGTTCTTCAAGACC 918
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## RESULT 4

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US-09-991-258-4
/ Sequence 4, Application US/09991258
/ Patent No. US20020141975A1
/ GENERAL INFORMATION:
/ APPLICANT: Olmsted, Robert
/ APPLICANT: Keith, Paula
/ APPLICANT: Dryga, Sergey
/ APPLICANT: Caley, Ian
/ APPLICANT: Maughan, Maureen
/ APPLICANT: Johnston, Robert
/ APPLICANT: Davis, Nancy
/ APPLICANT: Swanstrom, Ronald
/ TITLE OF INVENTION: ALPHAVIRUS VECTORS AND VIRUSOMES WITH MODIFIED HIV GENES FOR USE
/ TITLE OF INVENTION: VACCINES
/ FILE REFERENCE: 01113 0001U3
/ CURRENT APPLICATION NUMBER: US/09/991,258
/ CURRENT FILING DATE: 2001-11-16
/ PRIOR APPLICATION NUMBER: 09/902,537
/ PRIOR FILING DATE: 2001-07-09
/ PRIOR APPLICATION NUMBER: 60/216,995
/ PRIOR FILING DATE: 2000-07-07
/ NUMBER OF SEQ ID NOS: 19
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 1476
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence; No. US20020141975A1e =
/ NAME/KEY: CDS
/ LOCATION: (1)...(1476)
US-09-991-258-4
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Best Local Similarity 74.6%; Pred. No. 0.00637;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
QY 1 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTACGTGGAGCGGTTCTTCAAGACC 59
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Db 841 GACATCGGCGAGGGGCGGCAAGGAGGCGCTTCGGGACTATGTGGAGCGGTTCTTCAAGACC 899
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## RESULT 5

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US-09-991-258-1
/ Sequence 1, Application US/09991258
/ Patent No. US20020141975A1
/ GENERAL INFORMATION:
/ APPLICANT: Olmsted, Robert
/ APPLICANT: Keith, Paula
/ APPLICANT: Dryga, Sergey
/ APPLICANT: Caley, Ian
/ APPLICANT: Maughan, Maureen
/ APPLICANT: Johnston, Robert
/ APPLICANT: Davis, Nancy
/ APPLICANT: Swanstrom, Ronald
/ TITLE OF INVENTION: ALPHAVIRUS VECTORS AND VIRUSOMES WITH MODIFIED HIV GENES FOR USE
/ TITLE OF INVENTION: VACCINES
/ FILE REFERENCE: 01113 0001U3
/ CURRENT APPLICATION NUMBER: US/09/991,258
/ CURRENT FILING DATE: 2001-11-16
/ PRIOR APPLICATION NUMBER: 09/902,537
/ PRIOR FILING DATE: 2001-07-09
/ PRIOR APPLICATION NUMBER: 60/216,995
/ PRIOR FILING DATE: 2000-07-07
/ NUMBER OF SEQ ID NOS: 19
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 12523
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
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[illegible]



Search completed. February 4, 2003, 01:44:59  
Job time : 9 52896 secs

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QY 181 ATCCGCCAGTGCACCCCGCTGCGACCCGCGCAGCGGAGGCTGAAGAGCCTGTTCAAC 240  
Db 2163 CTGGGACAGTACACACCTCCCTTCAGACAGGATCAGAGAACTTAGATCATATATAAT 2222  
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Db 2223 ACAGTAGCAAGGCTTATGTTGTAAGAGAGATATAAAGACACCAAGGAAAGCT 2282  
QY 301 CTGGACAAGATCGAGGAGGAGCAGAAAGTGCAGAGAGAGATCCAGAGAGCGAGGCG 360  
Db 2283 TTAGACAAGATAGAGAGAGAGCAGAAACAAAGATAGAGAAAGATAGAGAGAGAGCT 2342  
QY 361 GCG-----GACAAGGGGCAAGGTGAGGACAGAACTACCCCATCGTGCAGAACCTGCAAGGCG 414  
Db 2343 GACACAGAGACAGAGCAATCAGGTGAGGAGAGAAATTAAGCTATAGTGCAGAGAGAGG 2402  
QY 415 CAGATGTTGACACAGGCGCATCAGCCCGCGCACCTGAAAGCCTGAGTGAAGGTGATCGAG 474  
Db 2403 CAAATGGTACATCAGGCGCATATCACCTAGAGAACTTTAAATGCTAGGTAAGAGTAGAGAA 2462  
QY 475 GAGAAAGCTTCAGCCCGAGGTGATCCCATGTTTCAAGCCTGAGCGAGGCGGCCACC 534  
Db 2463 GAGAAAGCTTCAGCCCGAGAGTGTATACCCATGTTTCAAGCCTGAGCGAGGCGGCCACC 2522  
QY 535 CCCCAGGAGCTGAAACAGATGTTTGAACAGCTGTTGAGAGAGAGAGAGAGAGAGAGAG 594  
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QY 595 CTGAAGAGAGATTAAG 654  
Db 2583 TTAAAGAGAGAGATTAAG 2642  
QY 655 GAG 714  
Db 2643 GAG 2702  
QY 715 AG 774  
Db 2703 AG 2762  
QY 775 ATCTACAG 834  
Db 2763 ATTTATAAG 2822  
QY 835 AGATCTGAG 894  
Db 2823 ACCATCTGAG 2882  
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QY 955 CTGCTGAG 1014  
Db 2943 TTGTTGTTGAG 3002  
QY 1015 GTCAG 1074  
Db 3003 GCTAAG 3062  
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Db 3063 AGAGTTTGGTGAAG 3122  
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QY 1159 AAGCGCGCGCAAACTGCG 1248  
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Db 3243 CACATTAATGAAGAGATGTAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3302  
QY 1309 CACAAAGGAG 1368  
Db 3303 TACAAGGAG 3362  
QY 1369 GAGAGCTTCGCT-----TCGAG 1416  
Db 3363 GAGAGCTTCAGGCTCGGCTGAG 3422  
QY 1417 AAGGACCGGAG 1476  
Db 3423 AAGGAACTTATCTTAACTTCCTTGAAGATCACTTTTTCGAGAGAGAGAGAGAGAGAGAGAG 3482  
QY 1477 TAA 1479  
Db 3483 TAA 3485

RESULT 2  
US-08-418-848A-9  
; Sequence 9, Application US/08418848A  
; Patent No. 5847096  
; GENERAL INFORMATION:  
; APPLICANT: SCHUBERT, MANFRED, HARMISON II,  
; APPLICANT: GEORGE G., CHANG-JIP, CHEN, PAKTERJEA, AKHIL  
; TITLE OF INVENTION: PREPCTIVE, INTERFERING  
; NUMBER OF SEQUENCES: 77  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
; CITY: NEW YORK  
; COUNTRY: U.S.A.  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORD PERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/418,848A  
; FILING DATE: 07-APR-1995  
; CLASSIFICATION: 526  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/936,849  
; FILING DATE: 28-AUG-1992  
; CLASSIFICATION: 526  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PICHARD W BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/POCKET NUMBER: 2026-4091092  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-758-4800  
; TELEFAX: 212-751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO. 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7399 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-418-848A-9

Query Match

43.68; Score 645.4; DB 2; Length 7399;











ATTORNEY/AGENT INFORMATION:  
 NAME: COOPER, Iver P.  
 REGISTRATION NUMBER: 28,095  
 REFERENCE/LOCKET NUMBER: CHANG=112  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-628-5197  
 TELEFAX: 202-737-3528  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 12494 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: other nucleic acid  
 DESCRIPTION: /desc = "DNA"

US-08-935-312-13  
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 Best Local Similarity 66.4%; Pred. No. 1.4e-89;  
 Matches 998; Conservative 0; Mismatches 481; Indels 24; Gaps 4;

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QY 1 ATGGGCGCCCGCCAGCATCCTCGCGCGCGGCAAGTGGACGCGCTGGGAGCGCATCCGC 60
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Db 581 CTAGAACGATTGCGAGTTAATCTCTGCGCTTTTAGAGACATCAGAAGGCTGTAGACAAATA 640
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QY 181 ATCCGCGCAGTGCACCCCGGCTGCAGACCGCGGAGGAGGCTGAAGAGCGCTGTTCAC 240
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Db 641 CTGGGACAGCTACCAACCTCCCTTCAGACAGGATCAGAGAACTTAGATCATTTATATAAT 700
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QY 241 ACCGTGACACATCTGTACTCTGTGTAAGAGAGATCGAGGTCCGCGGACACACAGGAGGC 300
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Db 701 ACAATAGCAGTCTCTATTGTGTGATCAAAAGGATAGATGTAAGAGACACCAAGGAAGCC 760
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QY 301 CTGGACAAGATCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
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QY 361 GCC-----GACAAGGGCAAGGTGAGCCGAGAACTACCCCATCGTGACAGAACCTGCAGGGC 414
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Db 821 GACACAGGAAACACAGCCAGGTCAGCCCAAAATTACCTATATAGTGCAGAACCTCCAGGGG 880
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QY 415 CAGATGTTGACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 474
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Db 881 CAAATGGTACATCAGGCGCATATCACCTAGAACTTTAAATGATGGTAAAGTACTAGAA 940
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QY 475 GAGAAGGCGCTTCAGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 534
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QY 595 CTGAAGGACACCATCAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 654
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Db 1061 TTAAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1120
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QY 655 GCGGCGCATCGCGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 714
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Db 1101 GCGGCGCATCGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1160
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QY 715 AGTACGCTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 774
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Db 1181 AGTACGCTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1240
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QY 775 ATGTACAAGCGGTGGATCATCTCTGGGCTTGAACAAAGATCGTGGGATTTACAGCGCGGTG 834
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QY 835 AGCATCTCTGATATCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 894
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QY 995 TTTCAAGACCTCTGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 954
   |||||
Db 1361 TATAAACTCTAAGAGCGCGAGCAAGCTTACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1420
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QY 955 CTGCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1014
   |||||
Db 1421 TTGTTGTCTTAAATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1480
   |||||

QY 1015 GGCAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1074
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Db 1481 GGCAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1540
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QY 1075 GCGGTGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1128
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Db 1541 AGAGTCTTGGCTGAAGCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1600
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QY 1129 AACAATTTTAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1188
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Db 1601 GGCAATTTTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1660
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QY 1189 ATGCGCGGCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1248
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Db 1661 ATAGCCAAAAATTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1720
   |||||

QY 1249 CACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1308
   |||||
Db 1721 CACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1780
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QY 1309 CACAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1368
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Db 1781 CACAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1840
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QY 1369 GATAGCTTCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1416
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Db 1841 GATAGCTTCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1900
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QY 1417 AAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1476
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Db 1901 AAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1960
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QY 1477 TAA 1479
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Db 1961 TAA 1963
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RESULT 8  
 US-08-848-760B-33  
 ; Sequence 33, Application US/08848760B  
 ; Patent No. 6248721  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Chang, Lung-Ji  
 ; TITLE OF INVENTION: Animal Model For Evaluation Of Vaccines  
 ; NUMBER OF SEQUENCES: 33  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik  
 ; STREET: 2401 N.W. 41st Street, Suite A-1  
 ; CITY: Gainesville  
 ; STATE: Florida  
 ; COUNTRY: United States of America  
 ; ZIP: 32606  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30













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Db 1251 GCGAATTTTAAAGAACTAAAGAAAAATTTTAAAGTGTTCATTAATGTTGAGGAAAGAAAGAGAGAG 1410
Qy 1189 ATCGGCTGTAATGCGGTAAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1248
Db 1411 ATAAGAAAGAAATGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476
Qy 1249 CATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1408
Db 1371 CAGTAAATGAAGAGATTGTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1420
Qy 1309 CACAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1464
Db 1431 TACAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1498

RESULT 14
US-09-124-900-1
; Sequence 1, Application US/09124900
; Patent No. 6268484
; GENERAL INFORMATION:
; APPLICANT: KATINGER, Hermann
; APPLICANT: BUCHACHER, Andrea
; APPLICANT: ERNST, Wolfgang
; APPLICANT: BALLAUN, Claudia
; APPLICANT: PURSCHER, Martin
; APPLICANT: TRKOLA, Alexandra
; APPLICANT: PREDL, Renate
; APPLICANT: SCHMATZ, Christine
; APPLICANT: KLIMA, Annalies
; APPLICANT: STEINDL, Franz
; APPLICANT: MUSTER, Thomas
; TITLE OF INVENTION: HIV-Vaccines
; FILE REFERENCE: 1939-112P
; CURRENT APPLICATION NUMBER: US/09/124,900
; CURRENT FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: PCT/EP95/01481
; PRIOR FILING DATE: 1995-04-19
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 8932
; TYPE: DNA
; ORGANISM: Human immunodeficiency virus type 1
US-09-124-900-1
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Query Match 42.5%; Score 628, DB 4; Length 8932,
Best Local Similarity 67.2%, Pref No 5 74-87;
Matches 924; Conservative 0; Mismatches 440; Indels 12; Gaps 2;
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Qy 1 ATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 60
Db 112 ATGGGTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 171
Qy 61 CTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Db 172 TTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 231
Qy 121 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
Db 232 CTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 291
Qy 181 ATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Db 292 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 351
Qy 241 AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Db 352 ACAGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 411
Qy 301 CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db 412 TTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 471
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RESULT 15

US-08-463-210-4

; Sequence 4, Application US/08463210



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QY 1075 CCGGTGCTGGCGAGGGGATGAGGTAAGGTAATA-----GAAAGTGTGATGAAGGAGAG 1128
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1193 AGAGTTTGGTTGAATTAATGAGATTAATAAATAACAGCTACCATTAATGATGCAGAGA 1252
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1129 AGCAACTTCAAGGGGATGAGGAGGATGATGATGATGATGATGATGATGATGATGATGAT 1188
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1253 GGCATTTTAGGAGACCAAGGAAAGGATGATGATGATGATGATGATGATGATGATGATGAT 1312
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1189 ATGGGGGCAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1248
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1313 ACAAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1372
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1249 CACTATATTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1308
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1373 CACCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1432
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1309 CACAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1364
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1433 TACAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1488
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Search completed: February 3, 2003, 23:46:41  
Job time : 100.249 secs





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| Db | 70   | CTGAGGCGCTGGTGGCAAGAAGAACTACAAAGCTAAAGCAACATTTGTGTGGGCGCTCCAGGGAG  | 129  |
| QY | 121  | CTGAGAGAAATTGGCGGCTTGAACGCGCGGCGCTGCTGGAGAGCAAGCGAGGCGTGCAGACAGATC | 180  |
| Db | 130  | CTGGAGAGGTTTGTGTGTAAACCCCTGGCGCTGCTGGAGACCTCTGAGGGGTGCAGGCAGATC    | 189  |
| QY | 181  | ATCCGCCAGCTGCACCCCGCCCTGCAGACCCGCAGCGAGAGCTGAAGAGCCCTGTTC AAC      | 240  |
| Db | 190  | CTGGGCGCAGCTCCAGGCGCTCCCTGCAAAACAGGCTCTGAGAGAGCTGAGTCCCTGTATCAAC   | 249  |
| QY | 241  | ACCGTGGCCACCCCTGTACTGCTGCTGACGAGAGAGATGAGGTCCGCGACACACCAAGAGAGGCC  | 300  |
| Db | 250  | ACAGTGGCTACCCCTGTACTGTGTGCACCCAGAAAGATTGTATGTGAAGACACCAAGAGAGGCC   | 309  |
| QY | 301  | CTGGACAAGATCGAGGAGGAGCAGAACCAAGTGCAGCAGCAAGATCCAGCAGGCGGAGG--      | 358  |
| Db | 310  | CTGGAGAGATTGAGAGAGAGAGAGAACCAAGTCCAGAGAGAGGCGCAGCAGGCTGCTGCT       | 369  |
| QY | 359  | ----CGGTCGACAAAGGCGCAAGGTGAGGCCAGAACTACCCCATCTGTGAGAAACCTGTCAGGSC  | 414  |
| Db | 370  | GATACAGGTAATCTCAGGCGAGGTCTCCAGAACTACCCCATCTGTGAGAAACCTGTCAGGSC     | 429  |
| QY | 415  | CAGATGGTGCACCGCCATCAGGCCCGCCACCCCTGAAGCCCTGGGTGAAGGTGATCGAG        | 474  |
| Db | 430  | CAGATGGTGCACCGCCATCTCCCGCGGAGCCCTGAATGCTGCTGAGGTAAGGCTGCTGAG       | 489  |
| QY | 475  | GAGAGGCGCTTCAGCGCGGAGGTGATCCCATCTTCACCGCCCTGAGCGAGGCGGCGCAC        | 534  |
| Db | 490  | GAGAGGCGCTTCTCCCTGAGGTGATCCCATCTTCTTCTGCGCTGCTGAGGTAAGGCTGCTGAG    | 549  |
| QY | 535  | CCCCAGGACCTGAACACCGATTTGAACACCGTGGCGGACACAGAGCGCGCATCGAGATG        | 594  |
| Db | 550  | CCCCAGGACCTGAACACCGATTTGAACACCGTGGCGGACACAGAGCGCGCATCGAGATG        | 609  |
| QY | 595  | CTGAAAGGACACTTAACAGAGAGCGCGCGGAGTGGGAGCGCTGAGAGCGCGCATCGAGATG      | 654  |
| Db | 610  | CTGAAAGGACACTTAATGAGAGAGTGTGAGTGGAGAGAGTGGAGTGGAGTGGAGTGGAGT       | 669  |
| QY | 655  | GACCGCATCGCGCGCGCGAGATGGCGGAGCGCGCGGCGAGACACCGCATCGAGATGCGCGGAG    | 714  |
| Db | 670  | GACCGCATCGCGCGCGCGAGATGGCGGAGCGCGCGGCGAGACACCGCATCGAGATGCGCGGAG    | 729  |
| QY | 715  | AGGACCTGTGAGATGAGATGGCTGGATGACAGAGCAACCGCTGTAACCGTGGAGAG           | 774  |
| Db | 730  | TCCACCTTCAGAGAGAGATTGGCTGGATGACCAACACACCGCGCGCATCGCGGAG            | 789  |
| QY | 775  | ATCTACAGCGGTGGATCATCTCTGCGCTTGAAACAGATCGTGGCGGATGTACAGCGCGGTG      | 834  |
| Db | 790  | ATCTACAGAGGTGGATCATCTCTGCGCTTGAAACAGATGTGAGAGATGTAATTCTTCAC        | 849  |
| QY | 835  | AGCATCTGAGACATCAAGAGAGGCGCGCGCAAGGAGCGCTTCTGCGGAGTGTGAGAGCGCTT     | 894  |
| Db | 850  | TCCATCTGTGACATCAAGAGAGGCGCGCGCAAGGAGCGCTTCTGCGGAGTGTGAGAGCGCTT     | 909  |
| QY | 895  | TTCAAGACCTTGCGCGCGAGAGCAAGACCGCAGAGGTGAAGAACTGAGATGACCGAGACAT      | 954  |
| Db | 910  | TACAAGACCTTGAGAGGTGAGAGAGCGCTCCAGAGAGGTGAAGAACTGAGATGACAGAGAC      | 969  |
| QY | 955  | CTGCTGCTGAGAAAGGCGAACTCCCGGAGTGTGAGAGACCATCTGTGCGGTCTCTGCGGCGCG    | 1014 |
| Db | 970  | CTGCTGCTGAGAAAGGCGAACTCCCGGAGTGTGAGAGACCATCTGTGCGGTCTCTGCGGCGCG    | 1029 |
| QY | 1015 | GCCAGCGCTGAGAGAGATGATGACCGCGCTTGTGAGAGAGGTGAGAGAGGTGAGAGAGGT       | 1074 |
| Db | 1030 | GCCAGCGCTGAGAGAGATGATGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAGGT          | 1089 |
| QY | 1075 | GCGGTGCTGAGAGAGATGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAG       | 1128 |
| Db | 1090 | AGGCTGCTGAGAGAGATGATGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAGGT           | 1149 |
| QY | 1125 | AGTAATTTCAAGGCGCGCGCGCGGATGCTGCTGAGAGAGGTGAGAGAGGTGAGAGAGGT        | 1188 |
| Db | 1150 | GCGCACTTCAGAGAACTGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAGGTGAGAGAG       | 1209 |

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RESULT 2
US-09-999-183-2
; Sequence 2, Application US/09999183
; Patent No. US20020147169A1
; GENERAL INFORMATION:
; APPLICANT: MITROPHANOUS, et al
; TITLE OF INVENTION: In Vivo Selection Method
; FILE REFERENCE: 674523-2009 US/09/999,183
; CURRENT APPLICATION NUMBER: 2001-11-29
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/GR00/02136
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 9312955.2
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ. IN NIS: 26
; SOFTWARE: Seqwin99
; SEQ. ID NO. 2
; LENGTH: 4307
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Codon optimised gagpol sequence
US-09-999-183-2

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Query Match      64.2%;      Score 949 4;      DB 10;      Length 4307;
Best Local Similarity 80.0%;      Pred. No. 6.6e-142;
Matches 1156;      Conservative 0;      Mismatches 271;      Indels 18;      Gaps 3;
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[illegible]



















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Db 1041 GCTACCTTAGAAGAAAGATGACAGCATCTCAGGAGATAGAGAGATCGGCGATAAGGCA 1080
QY 1075 CGGTGCTGGCGAGGUGATGAGCCAGGCCAACA-----CCAGCTGATGATGATGATGAG 1128
Db 1081 AGAGTTTGGCTGAAGCAATGAGCCAGCCAAAGTAACAAATACAGCTACCATATGATGACAGAG 1140
QY 1129 AGCAACTCAAGGCGCGCGCGGCGCATGCTCAAGTGTCTCAACTGCGGTAAGAGAGAGGCGAC 1188
Db 1141 GGCAATTTAGGAACCAAGAGAAAGATGCTTAAGTGTCTTCAATTCTGCTCAAGAGAGGCGAC 1200
QY 1189 ATCGCGCGCAACTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1248
Db 1201 ACAGCCAGAAATTCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1260
QY 1249 CACCAGATGAAGACTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1308
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QY 1309 CACAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1368
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QY 1369 GAGAGTTCGGCT-----TCGAGGAGACACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1416
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QY 1417 AAGGATCGCGAGATCTGACGAGCGCTGAGAGAGCGCTGTTGCGCAAGCGCGCGCGCGCG 1476
Db 1441 AAGGACTGTATCTTTAACTTCCCTCAGGTCACCTTTTGGGCAAGATCTTGTGTCACAG 1500

RESULT 13
US-09-968-355-15
; Sequence 15, Application US/09968355
; Patent No. US20020094523A1
; GENERAL INFORMATION:
; APPLICANT: Sakalian, Michael
; APPLICANT: Hunter, Eric
; TITLE OF INVENTION: Chimeric Retroviral Gag Genes and Screening Assays
; FILE REFERENCE: UAB-100XC1
; CURRENT APPLICATION NUMBER: US/09/968,355
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: 60/236,273
; FEIGE FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 4594
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Plasmid pDABCh4
US-09-968-355-15

Query Match 43.8%; Score 647.2; DB 10; Length 4594;
Best Local Similarity 66.5%; Pred. No. 2.6e-94;
Matches 998; Conservative 0; Mismatches 478; Indels 24; Gaps

QY 1 ATGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 60
Db 272 ATGGGTGCGAGAGCGCTCAGTATTAAAGCGGGGAGAAATTAGATCGATGCGGAAAAAATTCGG 331
QY 61 CTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAG 120
Db 332 TTAAGGCCAGCGCGGGAAGAAAAATATAAATTAAACATATAGTATGCGGCCAAGCAGGGGAG 391
QY 121 CTGGAGAAAGTTGGCGCTGAACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Db 392 CTAGAACGATTCGAGTTAAATCGTGGGCTTGTAGAAACATCAGAGAGGCTGTAGACAAATA 451
QY 181 ATCGGTCAGTGTGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240

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Db 751 ATGGGTCGAGAGCGTCGGTATTAAGCGGGGAGAAATAGATAAATGGGAAAAATTCGG 810  
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Db 811 TTAAGGCCCGGGGAAAGAAACAATAATAAACAATAAATAGTATGGCAAGCAGGGAG 870  
QY 121 CTGGAGGGCTTCGCCCTGAACCCCGGCTGCTGGAGACCGCCGAGGGCTGCMAGCAGATC 180  
Db 871 CTAGAACGATTCGCGAGTTAATCTTGGCTTTTAGAGACATCAGAGGCTGTAGACAAATA 930  
QY 181 ATGAAGCAGTGCAGCCCGCCCTGCAGACCGGCAAGGAGCTGCGCAGCCTGTACAAC 240  
Db 931 CTGGGACAGTACCAACCATCTTCCAGACAGGATCAGAGAACTTAGATCATTTATATAAT 990  
QY 241 ACCGTGGCCACCTGTACTGCTGCAGCCCGGCTGAGGTCGCGGACACCAAGGAGGCC 300  
Db 991 ACAATAGCAGTCTCTATTGTGTGCTCAAAAGGATAGATGTAAGAGACACCAAGGAAGCC 1050  
QY 301 CTGGACAAGATCGAGGAGGAGCAGAACCAAGTCCCAGCAGAAAGACCCAGCAGGC----- 353  
Db 1051 TTAGATAAGATAGAGGAGAGCAAAACAAAAGTAAGAAAAAGGCAAGCAGCAAGCAGCAGCT 1110  
QY 354 -CAAGGAGGCGGACCGCAAGGTGAGCCAGAACTACCCCATCTGTCAGAACTGTCAGGCG 411  
Db 1111 GACACAGGAACAACAGCCAGGTGAGCCAAAATTTACCTATAGTCAGAACTCCAGGG 1170  
QY 412 CAGATGGTGACAGGCGCATCAGCCCGCCGACCTGAAAGCCTGGGTGAAGGTGATCGAG 471  
Db 1171 CAAATGCTATCAGGCGCATATCACTAGAACTTTAAATGCTGATGCTGCTGCTGCTGCTG 1230  
QY 472 CAGAGGCGCTTCAGCCCGGAGGTGATCCCGCATGTTTACCGGCTGAGCGAGGCGGCGCACC 531  
Db 1231 GAGAGGCTTTCAGCCCGAAGTAATACCCATGTTTTCAGCATTATCAGAGGAGGCGCACC 1290  
QY 532 CCCCAGGAGCTGAACACGATGTTGAACACCGTGGGCGGCGCCACCGCCGCGCAGATG 591  
Db 1291 CCACAAGATTAAATACCATGCTAAACACAGTGGGCGGACATTAACAGCGCATGCAATG 1350  
QY 592 CTGAAGGACACATCAACGAGGAGTGGGCGGAGTGGGAGTGGTGAAGGCGGTGAGGTC 651  
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QY 652 GAGGCGGCTGAGGCGGAGATGAGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 711  
Db 1411 GAGGCGGCTTATGAGGAGGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1470  
QY 712 AGCAGCTGAGGAGGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 771  
Db 1471 AGTACCTTTAGGAGCAACAATAGGATGAGTGAATGAGTGAATGAGTGAATGAGTGAATGAG 1530  
QY 772 ATCTACAAGCGGTGATCATCTGCGGCTTGAACAGATGCTGCGGAGTGAACAGGAGGAG 831  
Db 1531 ATCTATAAAGATGATATCTCTGGGATTAATAAATAAGTAAAGTATAGGATGATAGGCTTACC 1590  
QY 832 AGCATCTGAGATCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 891  
Db 1591 AGCATCTGAGATTAAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1650  
QY 892 TTCAAGAGCTGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 951  
Db 1651 TATAAAGCTTTAAGAGCGGAGCAAGCTTCACAGAGGAGTAAAGGAGGAGGAGGAGGAGGAGGAG 1710  
QY 952 CTGCTGCTGAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1011  
Db 1711 TTGTTGTTCAAAATGCGAACTCAGATTTGTAAGTATTTTAAAGGAGGAGGAGGAGGAGGAGGAG 1770  
QY 1012 GCCACCTTGAGGAGATGATGAGCGGCTGCGCAGGCGTGGCGGCGGCGGCGGCGGCGGCGGCGG 1071  
Db 1771 GCGACATTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1830  
QY 1072 GCGGCTGCGGCGGAGGCGATGAGCGAGG - CCAAGCGGTGAACATCATGATGCGAGAG 1128

Db 1831 AGAGTTTGGCTGAAGCAATGAGCCAAAGTAACAAATCCAGCTACCATAATGATACAGAAA 1890  
QY 1129 AGCAACTTCAAGGGCCCCCGGGGCAACGTCAGAGTCTTCAACTCGCGGCAAGGAGGCGCAC 1188  
Db 1891 GGCATTTTTCAGAAACCAAGAAAGACTGTGTAAGTGTTCATTTGTGCGCAAGAGGCGCAC 1950  
QY 1189 ATGCGCAAGAACTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCT 1248  
Db 1951 ATAGCCAAAATTCAGGCGGCTAGGAAAAGGCGTGTGGAAATGTGGAAAGGAGGA 2010  
QY 1249 CACCAGATGAGGACTGCAAGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1308  
Db 2011 CACCAATGAAAGATTGTAATGAGAGACAGGCTTAATTTTAAAGGAGGAGGAGGAGGAGGAG 2070  
QY 1309 CACAAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1368  
Db 2071 CACANGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2112  
QY 1369 CCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1428  
Db 2113 CCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2172  
QY 1429 GAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1488  
Db 2173 AAGCAGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2232  
QY 1489 AGCG 1509  
Db 2233 AGCGACCGCTCGTCACAAATA 2253

RESULT 2  
US-08-188-583-5  
; Sequence 5, Application US/08188583  
; Patent No. 5851813  
; GENERAL INFORMATION:  
; APPLICANT: Desrosiers, Ronald C.  
; TITLE OF INVENTION: PRIMATE LENTIVIRUS VACCINES  
; NUMBER OF SEQUENCES: 57  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: U.S.A.  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; COMPUTER: IBM PS/2 Model 50Z or 55SX  
; OPERATING SYSTEM: IBM PC DOS (Version 3.30)  
; SOFTWARE: Wordperfect (Version 5.0)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/188,583  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/727,494  
; FILING DATE: July 9, 1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/551,945  
; FILING DATE: July 12, 1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Freeman, John W.  
; REGISTRATION NUMBER: Reg. No. 5961413 29,066  
; REFERENCE/DOCKET NUMBER: 00246/079002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 542-5070  
; TELEFAX: (617) 542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9709  
; TYPE: nucleic acid



TELEPHONE: (516) 742-4343  
TELEFAX: (516) 742-4366  
TELEX: 230 901 SANS UR  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9709 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-388-353-1

|                       |              |                    |                 |              |
|-----------------------|--------------|--------------------|-----------------|--------------|
| Query Match           | 42.6%,       | Score 642.2,       | DB 3,           | Length 9709; |
| Best Local Similarity | 65.6%;       | Prod. No. 2.1e-90; |                 |              |
| Matches 998,          | Conservative | 0,                 | Mismatches 493, | Indels 30,   |
|                       |              |                    |                 | Gaps 3;      |

[illegible]



















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Db 1311 ATAGCAAGAAATTGCAAGGCCCCCTAGAAAAAAGGCTGTGTGGAAATGTGGAAAGGAAGGA 1370
QY 1249 CACCAGATGAAGGACTGCACCGAGCGGCAGGCAAAATTCTCTGAGTAAAGATCTTCTGCTGAGC 1308
Db 1371 CACCAAAATGAAGATTGTAAGTGAAGAGAGAGGCTAAATTTTGAAGGAAGATCTCTGCTCTCC 1430
QY 1309 CACAAGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1361
Db 1431 TACAAGGGAAGGCCAGGGAATTTCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1490
QY 1362 .....CACCGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1410
Db 1491 CTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1550
QY 1411 ACCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1470
Db 1551 ACAACAACCTCCCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1610
QY 1471 CTGCGCAGCCTGTTCTGCGAGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1509
Db 1611 CTCAGATCACTCTTTGGCAAGCAGCCCGCTCGTCACAATAA 1649
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## RESULT 13

US-09-124-900-1

; Sequence 1, Application US/09124900

; Patent No. 6268484

; GENERAL INFORMATION:

; APPLICANT: KATINGER, Hermann

; APPLICANT: BUCHACHER, Andrea

; APPLICANT: EPNST, Wolfgang

; APPLICANT: BALLAUN, Claudia

; APPLICANT: PUPTSCHER, Martin

; APPLICANT: TRKOLA, Alexandra

; APPLICANT: PREDL, Renate

; APPLICANT: SCHMATZ, Christine

; APPLICANT: KLIMA, Annelies

; APPLICANT: STEINDL, Franz

; APPLICANT: MUSTER, Thomas

; TITLE OF INVENTION: HIV-Vaccines

; FILE REFERENCE: 1939-112P

; CURRENT APPLICATION NUMBER: US/09/124,900

; CURRENT FILING DATE: 1998-07-30

; PRIOR APPLICATION NUMBER: PCT/EP95/01481

; PRIOR FILING DATE: 1995-04-19

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 1

; LENGTH: 8932

; TYPE: DNA

; ORGANISM: Human immunodeficiency virus type 1

US-09-124-900-1

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Query Match          41.8%; Score 631.4; DB 4; Length 8932;
Best Local Similarity 64.8%; Pred. No. g 1e 89;
Matches 998; Conservative 0; Mismatches 511; Indels 30; Gaps 3;
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Db 112 ATGGGTGGAGAGCGTCAGTATTAAAGCGGCGGAGAGATAGATCGATCGATGGGAAAAAATTCGG 171
QY 61 CTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Db 172 TTAAGGCCAGGGGAAAGAAAAATATAAATAAACATATAGTATGGGCAAGCAGGGAG 231
QY 121 CTGGAGGGCTTCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
Db 232 CTAGAAGCATTCGCGAGTTAATCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 291
QY 181 ATGAAGCAGATGTCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
Db 292 CTGGACACATATACAAACCATCTCTTTCAGAGAGAGATCAGAGAGAGAGAGAGAGAGAGAGAGAG 351
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QY 241 ACCGTTGGCGACCGCTGTACTGCTGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Db 352 ACAGTAGCAACCTCTTATTGTTGTTGATCAAGGATAGAGATATAAAGATACCAAGGAGGCT 411
QY 301 CTGACACAAGATCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 353
Db 412 TTAGACAAGATAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 471
QY 354 --CAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 411
Db 472 GACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 531
QY 412 TAGATGTTGACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 471
Db 532 CAAATGTTACATCAGGCGCATATACCTAGAGACTTTTAAATGATATGAGTAAAGAGTAGAGAA 591
QY 472 GAGAAAGGCTTCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 531
Db 592 GAGAAAGGCTTCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 651
QY 532 CCGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 591
Db 652 CCACAAGATTTTAAACACCGATGCTTAAACACAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAG 711
QY 592 CTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 651
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QY 652 GGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 711
Db 772 GGGGCTATTGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 831
QY 712 AGCACCGCTGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 771
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Db 952 AGTATCTGAGCATNAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1011
QY 892 TTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 951
Db 1012 TATATAAACTCTTAAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1071
QY 952 CTGCTGTTGCGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1011
Db 1072 TTGTTGGTCCAAAAATGCGAAACCGAGATTGTAAGAGACTATTTTAAAAAGCATTTGGGACCG 1131
QY 1012 GGCACCGCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1071
Db 1132 GGTACACCTAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1191
QY 1072 CGGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1128
Db 1192 AGAGTTTGTGCTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1251
QY 1129 AGCAACTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1188
Db 1252 GGCATTTTGTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1311
QY 1189 ATGCGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1248
Db 1312 ACAGCGCAGAAATTCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1371
QY 1249 CACGAGATGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1308
Db 1372 CACCAAAATGAAGATTTGTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1431
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QY 772 ATCTACAAAGGGTGGATCATCTCTGGGCTGGAACAAGATGCTGGGAGTGTACAGGCGCGGTG 831
Db 893 ATTATAAAGATGGATAATCTCTGGGATTAATAATAAATAGTAAGATGTATAGCGCTTACC 952
QY 832 AGCATCTCTGGACATCGGCAAGGCGGCGCAAGAGCGCTCTGGAGACTAGGTGGAGCGCTTC 891
Db 953 AGCATCTCTGGACATAGAGCAAGGAGCGCAAGAGCGCTCTTTAGAGACTATGTAGAGCGGTTG 1012
QY 892 TTCAAGAGCGCTGGGCGGAGAGAGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAG 951
Db 1013 TATAAACTCTAAGAGCGGAGCAAGCTTTCACAGGAGGTAAAAAATTGGATGACAGAAAAC 1072
QY 952 CTGCTGGTGTGAAGAGCGGCAAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1011
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QY 1012 GTCACACTCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1071
Db 1133 GCTACACTCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1192
QY 1072 TCTGCTGGTGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1131
Db 1193 AGAGTTTGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1252
QY 1129 AGCAACTCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1188
Db 1253 GGCATTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1312
QY 1189 ATGCGCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1248
Db 1313 ACAGCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1372
QY 1249 CACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1308
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QY 1309 CACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1361
Db 1433 TACAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1492
QY 1462 CACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1410
Db 1493 CTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1552
QY 1411 ATGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1470
Db 1553 ACAACAACTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1612
QY 1471 CTGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1509
Db 1613 CTCAGATCACTCTTGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1651
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## RESULT 15

US-09-620-958A-3

; Sequence 3, Application US/09620958A

; Patent No. 6294338

; GENERAL INFORMATION:

; APPLICANT: Nunomura, Kiyotada

; TITLE OF INVENTION: POLYNUCLEOTIDE AMPLIFICATION METHOD

; FILE REFERENCE: GP104-02.UT

; CURRENT APPLICATION NUMBER: US/09/620,958A

; CURRENT FILING DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 9

; SOFTWARE: PastSeq for Windows Version 3.0

; SEQ ID NO 3

; TYPE: RNA

; LENGTH: 8933

; ORGANISM: Human Immunodeficiency Virus

; FEATURE:

; NAME/KEY: source

; LOCATION: (1)...(8933)

; OTHER INFORMATION: Sequence of transcripts produced from the BH10

; Patent No. 6294338  
; OTHER INFORMATION: plasmid.  
US-09-620-958A-3

## Query Match

41.8%; Score 631 4; DB 4; Length 8933;

Best Local Similarity 55.2%; Pred. No. 9.1e-89;

Matches 849; Conservative 149; Mismatches 511; Indels 30; Gaps 3;

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QY 1 ATGCGCGAGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 60
Db 113 AUGGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 172
QY 61 CTGCGCGAGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
Db 173 TUAAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 232
QY 121 CTGCGAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
Db 233 TUAAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 292
QY 181 ATGAACTGAGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Db 293 CTGCGAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 352
QY 241 ACCTGCGCGAGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Db 353 ACAGTGAAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 412
QY 301 CTGCGAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 353
Db 413 TUAAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 472
QY 354 --GAAAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 411
Db 473 GATCGAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 532
QY 412 CAGATGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 471
Db 533 CAAAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 592
QY 472 GAGAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 531
Db 593 GAGAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 652
QY 532 CCGTAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 591
Db 653 CCGTAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 712
QY 592 CTGAGAGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 651
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QY 652 GCGCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 711
Db 773 GCGCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 832
QY 712 AGTACCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 771
Db 833 AGUACCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 892
QY 772 ATCTACAAAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 831
Db 893 AUAUAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 952
QY 832 AGTACCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 891
Db 953 AGTACCGCGGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1012
QY 892 TTCAAGAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 951
Db 1013 UAUAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1072
QY 952 CTGCGCGAGCGGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1011
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Db 70 CTGAGGCGCTGGTGGCAAGAAAGTAAAGCTAAAGCACATTGTGTGGGCGCTCCAGGGAG 129
Qy 121 CTGGAGGGCTTTGGCCCTTAACCCCGGCTGTCTGGAGACCGCGGAGGGCTGCAAGCAGATC 180
Db 130 CTGGAGAGGTTTGTGTGAACCCCTGGGCTGTCTGGAGACCTCTGAGGGGTGCAAGCAGATC 189
Qy 181 ATGAAGCAGTGTGAGCCCGGCTGCAGACCGGCAAGAGGAGCTGGCGCAGCGCTGTACAAC 240
Db 190 CTGGGCTAGCTTCAAGCCCTCTCTGCAACAGGCTCTGTGAGGAGCTGTGAGGCTGTACAAC 249
Qy 241 ACGGTGGACACCTGTACTGTGTGCAAGCGGCTGTGAGGCTGTGAGGCTGTGAGGCTGTGAGG 300
Db 250 ACAGTGTACCTGTACTGTGTGCAAGAGGCTGTGAGGCTGTGAGGCTGTGAGGCTGTGAGG 309
Qy 301 CTGATTAAGATGAGGAGGAGAGAGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 353
Db 310 CTGGAGAGAGATTGAGGAGGAGAGAGAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 369
Qy 354 --CAAGGAGCGCGACGGCAAGGTGAGCGAGAACTACCCCATCGTGCAGAACCTGCAGGGC 411
Db 370 GGCACAGGCAACTCCAGCGAGGTGTCACAGAACTACCCCATCGTGCAGAACCTGCAGGGC 429
Qy 412 CAGATGGTGACCGGCGCATCAGCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 471
Db 430 CAGATGGTGACCGGCGCATCAGCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 489
Qy 472 GAGAAAGCGCTTACGCGCGGAGGTGATCGGCTATGTTACCGGCTTGAAGCGGCGGCGGCGGCGG 531
Db 490 GAGAAAGCGCTTCTCCCTGAGGTGATCGGCTATGTTCTCTGCGGCTGCTGAGGGTGGCCACC 549
Qy 532 CCCCAGGACCTGAACACGATGTTGAACACCGGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 591
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Qy 612 CTGAAGAGATGAACACGATGTTGAACACGAGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 651
Db 610 CTGAAGAGATGAACACGATGTTGAACACGAGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 669
Qy 652 GGGCGCGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 711
Db 670 GGGCGCGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 729
Qy 712 AGCAGCGCTGTAGGAGGAGATGGCGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 771
Db 730 TCCACCGCTGTAGGAGGAGATGGCGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 789
Qy 772 ATCTACAAGCGGTGGATCTCTGGGCTGTGAACAGATGCTGCGGATGTACAGCGGCGGCTT 831
Db 790 ATCTACAAGCGGTGGATCTCTGGGCTGTGAACAGATGCTGCGGATGTACAGCGGCGGCTT 849
Qy 832 AGCATCTCTGACATCGGCTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 891
Db 850 TCCATCTCTGACATCGGCTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 909
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Db 910 TACAAGACCTGTAGGCGGCTGTAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 969
Qy 952 CTGCTGTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1011
Db 970 CTGCTGTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1029
Qy 1012 GTCACCGCTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1071
Db 1030 GTCACCGCTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1089
Qy 1072 CCGGTGTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1128
Db 1090 AGGGTGTGTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1149
Qy 1129 AGCAACTTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1188
Db 1150 GATAACTTGAAGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1209
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Qy 1189 ATGCGCAAGAACTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1248
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Qy 1249 CACCAGATGAAGGAGCTGCACCGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1308
Db 1270 CACCAGATGAAGGAGCTGCACCGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1329
Qy 1309 CACAAGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1368
Db 1330 CACAAGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1389
Qy 1369 CCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1428
Db 1390 GAGTCTCTC-----AGTTTGGGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1437
Qy 1429 GAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1488
Db 1438 GAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1491
Qy 1489 AGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1509
Db 1492 AACGACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1512
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## RESULT 2

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US-09-999-183-2
; Sequence 2, Application US/09999183
; Patent No. US20020147169A1
; GENPAL INFORMATION:
; APPLICANT: MITROPHANOUS, et al
; TITLE OF INVENTION: In Vivo Selection Method
; FILE REFERENCE: 674523 2009
; CURRENT APPLICATION NUMBER: US/09/999,183
; CURRENT FILING DATE: 2001-11-29
; PRIORITY APPLICATION NUMBER: PCT/GB00/02136
; PRIORITY FILING DATE: 2000-06-02
; PRIORITY APPLICATION NUMBER: 9912465 2
; PRIORITY FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: SeqWin99
; SEQ ID NO 2
; LENGTH: 4307
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Codon optimised gagpol sequence
US-09-999-183-2
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Query Match 51 51; Score 930 2; DR 10; Length 4307,  
Best Local Similarity 77.4%; Pred. No. 9e-138;  
Matches 1178; Conservative 0; Mismatches 313; Indels 30; Gaps 3;

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Qy 1 ATGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60
Db 1 ATGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60
Qy 61 CTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
Db 61 CTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
Qy 121 CTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
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Qy 181 ATGAAGCAGTGTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
Db 181 CTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
Qy 241 ACGGTGGACACCTGTACTGTGTGCAAGCGGCTGTGAGGCTGTGAGGCTGTGAGGCTGTGAGGCTGT 300
Db 241 ACGGTGGACACCTGTACTGTGTGCAAGCGGCTGTGAGGCTGTGAGGCTGTGAGGCTGTGAGGCTGT 300
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RESULT 14

US-09-999-183-1  
; Sequence 1, Application US/09999183  
; Patent No. US20020147169A1  
; GENERAL INFORMATION:  
; APPLICANT: MITROPHANOUS, et al  
; TITLE OF INVENTION: In Vivo Selection Method  
; FILE REFERENCE: 674523-2009  
; CURRENT APPLICATION NUMBER: US/09/999,183  
; CURRENT FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: PCT/GB00/02136  
; PRIOR FILING DATE: 2000-06-02  
; PRIOR APPLICATION NUMBER: 9912965.2  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: SeqWin99  
; SEQ ID NO 1  
; LENGTH: 4307  
; TYPE: DNA  
; ORGANISM: Human immunodeficiency virus type I  
US-09-999-183-1

Query Match 41.6%; Score 627.8; DB 10; Length 4307;  
Best Local Similarity 65.0%; Pred. No. 1.6e-90;  
Matches 989; Conservative 0; Mismatches 502; Indels 30; Gaps 3;

|    |     |  |     |
|----|-----|--|-----|
| QY | 1   | ATGGGGGCGCGCGCCAGCATCTCGGCGCGGAGAGAGCTGGACAAAGTGGAGAGATCCGC    | 60  |
| Db | 1   | ATGGGTGCGAGAGCGTCAGTATTAAAGCGGGGGAGAGATAGATCGATGGCAAAAATTCGG   | 60  |
| QY | 61  | CTGGCGCCCGCGCGGCAAGAACACTACATGCTGAAGCACTCTGGTGGCGCCAGCGCGAG    | 120 |
| Db | 61  | TTAAGGCCAGCGGGGAAAGAAAAATATAAATTAACATATAGTATGGCAAGCAGGGAG      | 120 |
| QY | 121 | CTGGAGGGCTTCGCCCTGAAACCCCGGCTGCTGGAGACCGCGGAGGCTGCAAGCAGATC    | 180 |
| Db | 121 | CTAGAACGATTCGCAGTTAATCCTGGCTGTTAGAAACATCAGAAAGCTGTAGACAAATA    | 180 |
| QY | 181 | ATGAAGCAGCTGCAGCCCGCTGCAGACCGGCTGCGAGGAGCTGCGCAGCGCTGTACAAC    | 240 |
| Db | 181 | CTGGGACAGTACCAACCTCCCTTCAGACAGGATCAGAAAGCTTAGATCATTTATATAAT    | 240 |
| QY | 241 | ACCGTGGCCACCTGTACTGCGTGCACCGCGGCTGCGAGGCTCGCGACACCAAGGAGGC     | 300 |
| Db | 241 | ACAGTAGCAACCTCTATTGTGTCATCAAGAGGATAGAGATAAAAGACACCAAGGAAGCT    | 300 |
| QY | 301 | CTGGACAAGATCGAGGAGGAGCAGAACTCCAGCAGAGACCGCAGCAGGC-----         | 353 |
| Db | 301 | TTAGACAAGATAGAGGAGAGCAAAACAAAGATAGAAAGAAAGCAAGCAGCAGCT         | 360 |
| QY | 354 | --CAAGGAGCGCGACCGCAAGGTGAGCGCAGAACTACCCCATCGTCAGAACCTGCAGGGC   | 411 |
| Db | 361 | GACACAGGACACAGCAATCAGGTCAGGCGCAAAATTAACCTATAGTGCAGAACATCCAGGG  | 420 |
| QY | 412 | CAGATGTTGACAGGAGGAGATCAGCCCGCGCAGCTTAAAGCTGAGGAGGAGGATCGAG     | 471 |
| Db | 421 | CAAAATGTTACATCAGGCGCATATCAGCTAGAACTTTAAATGCATGGTAAAGTAGTAGAA   | 480 |
| QY | 472 | GAGAAAGGCTTCAGCGCCGAGGTGATCCCGCATGTTCAACCGCGCTGAGCGGCGGCAAC    | 531 |
| Db | 481 | GAGAAAGGCTTCAGCGCCGAGAGTATACCGATGTTTTCAGCATTTATCAGAAAGGAGCGCAC | 540 |
| QY | 522 | CCCAAGGAGATGTAACACATGTTGAAATAGGCTGGGAGTAAAGAGGAGGAGTATGAGATG   | 591 |
| Db | 541 | CCACAAGATTTAAACACCATGCTAAACACAGTGGGGGACATCAAGCAGCGCATGCAAAATG  | 600 |
| QY | 592 | CTGAAGGACACCATCAACGAGGAGGAGTGGAGCGGCTTGCACCGCGCTGAGCGGAGGAG    | 651 |
| Db | 601 | TTAAAGAGAGCATCATCAATGAGGAGAGCTGAGAAATGAGATGAGATGAGTATGATGATGCA | 660 |
| QY | 652 | GAGCGCGCTGCTGCGCGGCTGAGATGCGGAGAGAGAGAGAGATAGAGAGAGAGAGAGAG    | 711 |

|    |      |   |      |
|----|------|---|------|
| Db | 661  | GGGCTATTGCAACGAGGCGCAGATGAGAGAAACCAAGGGAAGTGTATATAGCAGGAACTACT  | 720  |
| QY | 712  | AGCAACCTGAGAGGAGAGATGCGCTGATGATGATGATGATGATGATGATGATGATGATGAT   | 771  |
| Db | 721  | AGTACCTTTGAGGAGAAATAGGATGATGATGATGATGATGATGATGATGATGATGATGAT    | 780  |
| QY | 772  | ATCTACAGCGGTGGATCATCTGCGGCTGAAACAGATGCTGCGGAGATGATGATGATGATGAT  | 831  |
| Db | 781  | ATTTATAAAGATGGATAATCTCTGGGATTAATAATAAATAGTAAGATGATGATGATGATGAT  | 840  |
| QY | 832  | AGCATCTGTAATCTCGGCGAGGCGGCTTAAAGAGAGATGCTGCGGAGATGATGATGATGAT   | 891  |
| Db | 841  | AGCATCTGTAATCTCGGCGAGGCGGCTTAAAGAGAGATGCTGCGGAGATGATGATGATGAT   | 900  |
| QY | 892  | TTCAAGACCTGCGGCGGAGGCGGCTTAAAGAGAGATGCTGCGGAGATGATGATGATGATGAT  | 951  |
| Db | 901  | TATAAACTCTAAGAGCGGAGCAAGCTTACAGGAGGTAATAAATTTGGATGACAGAAACC     | 960  |
| QY | 952  | CTGCTGCTGCAGAAACCGCAACCGGCTTCAAGAGAGATGCTGCGGAGATGATGATGATGAT   | 1011 |
| Db | 961  | TTGTTGGTCCAAAATGCCAACCAGATTTGTAAGACTATTTTAAAGCATTTGGGACGAGCG    | 1020 |
| QY | 1012 | GCCACCTTGAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  | 1071 |
| Db | 1021 | GCTACACTGAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT   | 1080 |
| QY | 1072 | CGCGTGTGCGCGGAGGCGGATGAGCCAGG---CCAAACAGCGTGAACATCATGATGAGAAAG  | 1128 |
| Db | 1081 | AGAGTTTGGCTGAAGCAATGAGCCCAAGTAACTTCACTACCATATGATGATGATGATGATGAT | 1140 |
| QY | 1129 | ACCAACTTCAAGGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAG    | 1188 |
| Db | 1141 | GGCAATTTTAGGAACCAAGAAAGATTTGTTAAGTGTCTCAACTGCGGAGAGAGAGAGAG     | 1200 |
| QY | 1189 | ATGCGCAAGAACTGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAG     | 1248 |
| Db | 1201 | ACAGCCAGAAATTTGAGGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAG     | 1260 |
| QY | 1249 | CACAGATGAAGGACTGCAAGGAGGCGGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAG    | 1308 |
| Db | 1261 | CACCAATGAAGGACTGCAAGGAGGCGGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAG    | 1320 |
| QY | 1309 | CACAAAGGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAG     | 1368 |
| Db | 1321 | TACAAGGAGAGCGCGCGGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAG     | 1362 |
| QY | 1369 | CCCAAGGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAGAG    | 1428 |
| Db | 1363 | CCCAAGGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAGAG    | 1422 |
| QY | 1429 | GAGGCGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAGAG     | 1488 |
| Db | 1423 | AAGCAGGAGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAG      | 1482 |
| QY | 1489 | AGGCGCGCGCGCGCGGCGGCTTCAAGTGTCTCAACTGCGGAGAGAGAGAGAGAGAGAG      | 1509 |
| Db | 1483 | AACGACCGCTCGTCACAATAA 1503                                      |      |

RESULT 15  
US-09-968-355-24  
; Sequence 24, Application US/09968355  
; Patent No. US20020094523A1  
; GENERAL INFORMATION:  
; APPLICANT: Sakalian, Michael  
; APPLICANT: Hunter, Eric  
; TITLE OF INVENTION: Chimeric Retroviral Gag Genes and Screening Assays  
; FILE REFERENCE: UAR-100XCI  
; CURRENT APPLICATION NUMBER: US/09/968,355  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: 60/236,273  
; PRIOR FILING DATE: 2000-09-28



